

CIOhio 2005

10-NOV-05

**Enabling Transformation
with Technology**

LTG Steven W. Boutelle

Chief Information Officer/G-6



CALL TO DUTY: 230 YEARS OF SERVICE TO OUR NATION



SLIDE DELETED



"At the Edge"





"Establishing the links"





"The next level up"





"Building the infrastructure in country"





"Around the World"





"Posts, Camps and Stations"



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SLIDE DELETED



(System & Network Management; Information Assurance; Information Dissemination)





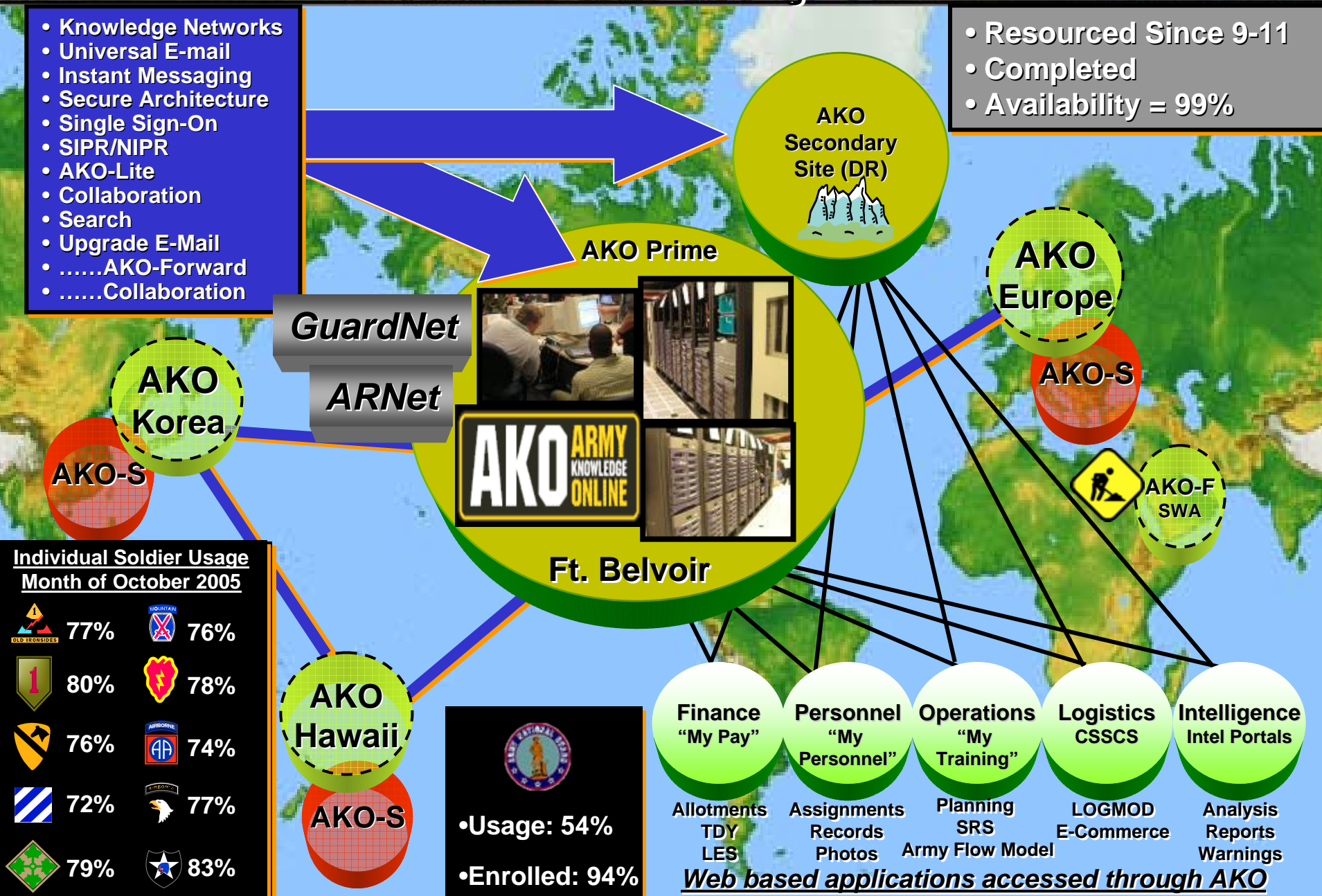
AKO – A Global Perspective



.....AKO to the Edge

- Knowledge Networks
- Universal E-mail
- Instant Messaging
- Secure Architecture
- Single Sign-On
- SIPR/NIPR
- AKO-Lite
- Collaboration
- Search
- Upgrade E-Mail
-AKO-Forward
-Collaboration

- Resourced Since 9-11
- Completed
- Availability = 99%





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Hurricane Katrina Relief - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Address http://www.army.mil/katrina/index.html

KATRINA HURRICANE RELIEF

Home | News | Video | Imagery | Resources

Soldiers, spouses, family members and all members of the Army Family who need assistance because of Hurricane Katrina should email the Well-Being Liaison Office at KATRINA.RELIEF@US.ARMY.MIL, or call them at 1-800-833-6622.



Rising floodwaters swallow parked cars on Keesler Air Force Base, Miss., Aug. 29, 2005, as Hurricane Katrina hits the region. The base is home to 6,000 military students, permanent party, civilians and their families. The initial damage to base infrastructure was catastrophic; the base is currently in the assessment and recovery stage. Department of Defense photo.

EMERGENCY CONTACT NUMBERS FOR SERVICE MEMBERS AND FAMILIES

ARMY NATIONAL GUARD HELPLINE: 1-888-777-7731

Families of Deployed Army National Guard Soldiers affected by Hurricane Katrina can call the number above and identify yourselves so that we may inform deployed Guardsmen of your situation.

MILITARY ONE SUPPORT NUMBER: 1-800-342-9647

Any military members or families in need of counseling services may call the Military One Support number above.

KEESLER AIR FORCE BASE TELEPHONE HELPLINE: 1-800-435-9941

NAVY TELEPHONE HELPLINE: 1-877-414-5358

This line will be staffed 24 hours by active duty Navy volunteers and will have connectivity with Navy, FEMA and other government agencies. They will try their very best to answer questions regarding the status of Navy family members, but please be aware that communication in the region is still inconsistent.

ADDITIONAL RELIEF INFORMATION

The White House

The Federal Emergency Management Agency

The Red Cross

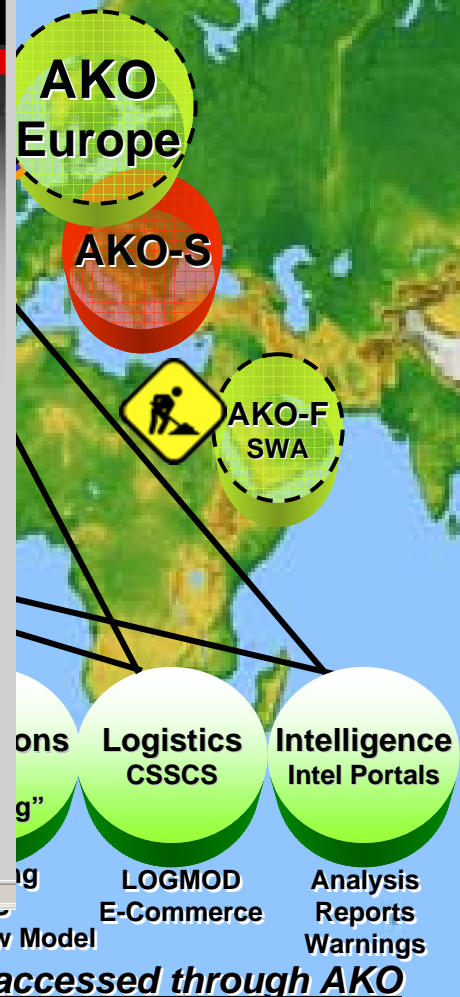
Disaster Help.gov

--> Detailed list of additional resources

HURRICANE KATRINA RELIEF NEWS

Airmen deploy in support of hurricane relief

Guard
ARM



Individual Soldier Usage Month of October 2005

	77%		76%
	80%		78%
	76%		74%
	72%		77%
	79%		83%

AKO
Hawai

AKO-

•Enrolled: 94%



Award Winning Portal



" If there's one thing the 2001 InfoWorld organizations have in common, it's bolstering their efforts through e-business technologies, whether it's to streamline processes, enhance customer service, or develop new ways to drive revenue. Each of these organizations exemplifies the ways in which cutting-edge technologies can be used to build better businesses."



InfoWorld LEAD WITH KNOWLEDGE

1. J.P. Morgan Chase
2. Proctor & Gamble
3. Fannie Mae
4. Sears, Roebuck & Co.
6. Reuters
7. United Parcel Service of America
9. Dow Chemical

10. ***United States Army***

13. Starbucks
23. Nordstrom
27. Yahoo
36. NASDAQ
52. Merrill Lynch
55. Carnegie Mellon
60. General Motors
67. eBay

- April 2003 -
Excellence Award
for internal portal
category



*InfoWorld Magazine , November 2001, Top 100 List



What Soldiers from around the world are Demanding



**Video
Teleconferencing
(VTC)**

**Non-Classified
Internet Protocol
Router Network
(NIPRNET)**

**Defense
Switched
Network
(DSN)**

**Secret Internet
Protocol Router
Network
(SIPRNET)**

**Voice Over
Internet
Protocol**

**Defense Red
Switch Network
(DRSN)**



✓ Joint ✓ Modular ✓ Scalable ✓ Rapidly Deployable



Moving to "Everything over IP (EoIP)"



- **FIRST**... the **Joint Special Operations Command** - Fort Bragg



- **THEN**.... the **Joint Communications Support Element** - MacDill AFB



- Iraq
- Afghanistan

- **NOW!!!**



• EoIP

- Scalable
- Flexible
- Efficient
- Less cost, smaller footprint, less people.
- EoIP will converge & reduce training requirements

Current Circuit Based & Telephony Capability



Everything Over IP (EOIP) Refit



JOINT COMMUNICATIONS SUPPORT ELEMENT

To address inefficiencies of traditional bandwidth allocations.....migrate everything to EoIP



So, what's really behind the door?



**Rugged on the outside,
.....commercial on the inside**





So, what's really behind the door?



**Rugged on the outside,
.....commercial on the inside**

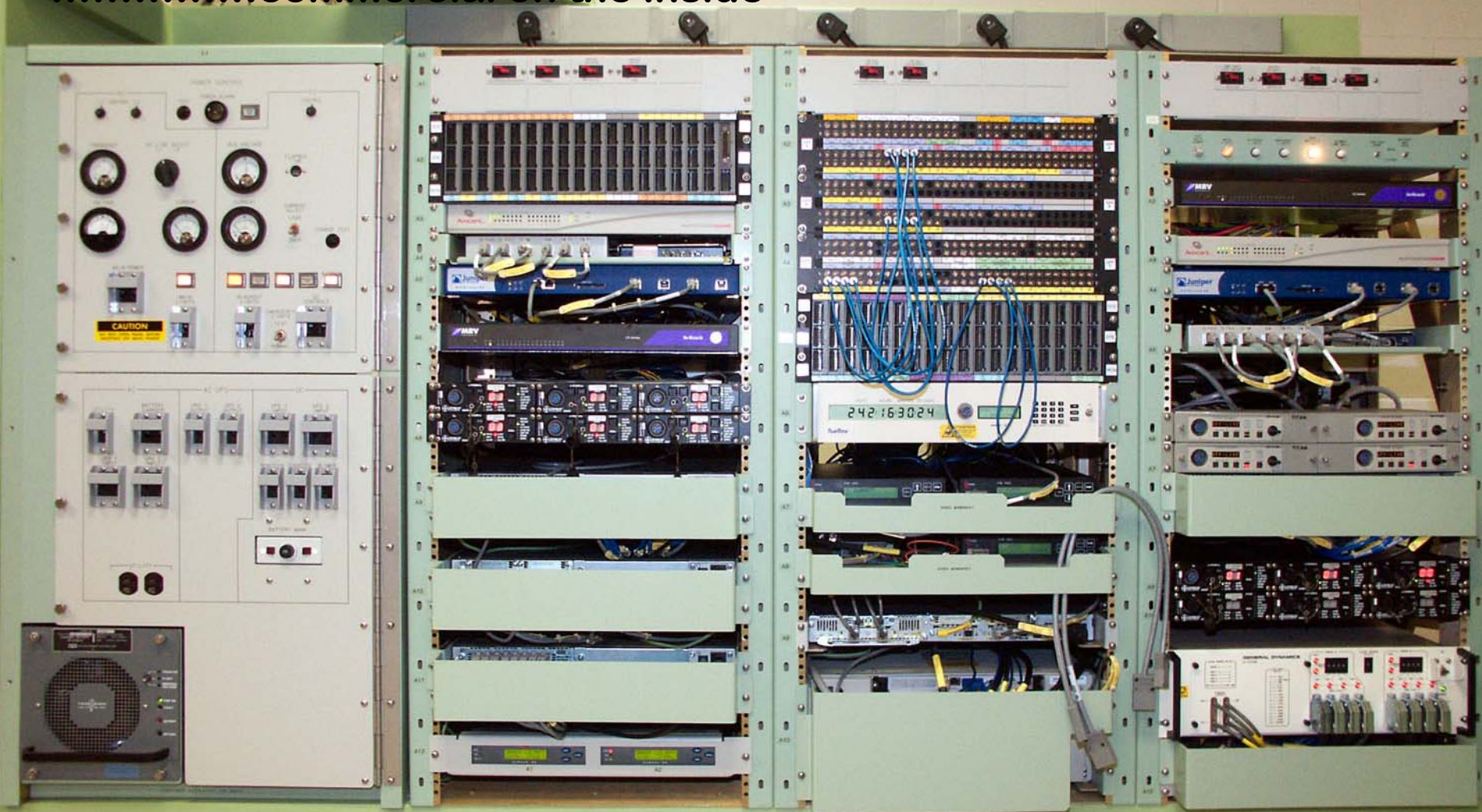




So, what's really behind the door?



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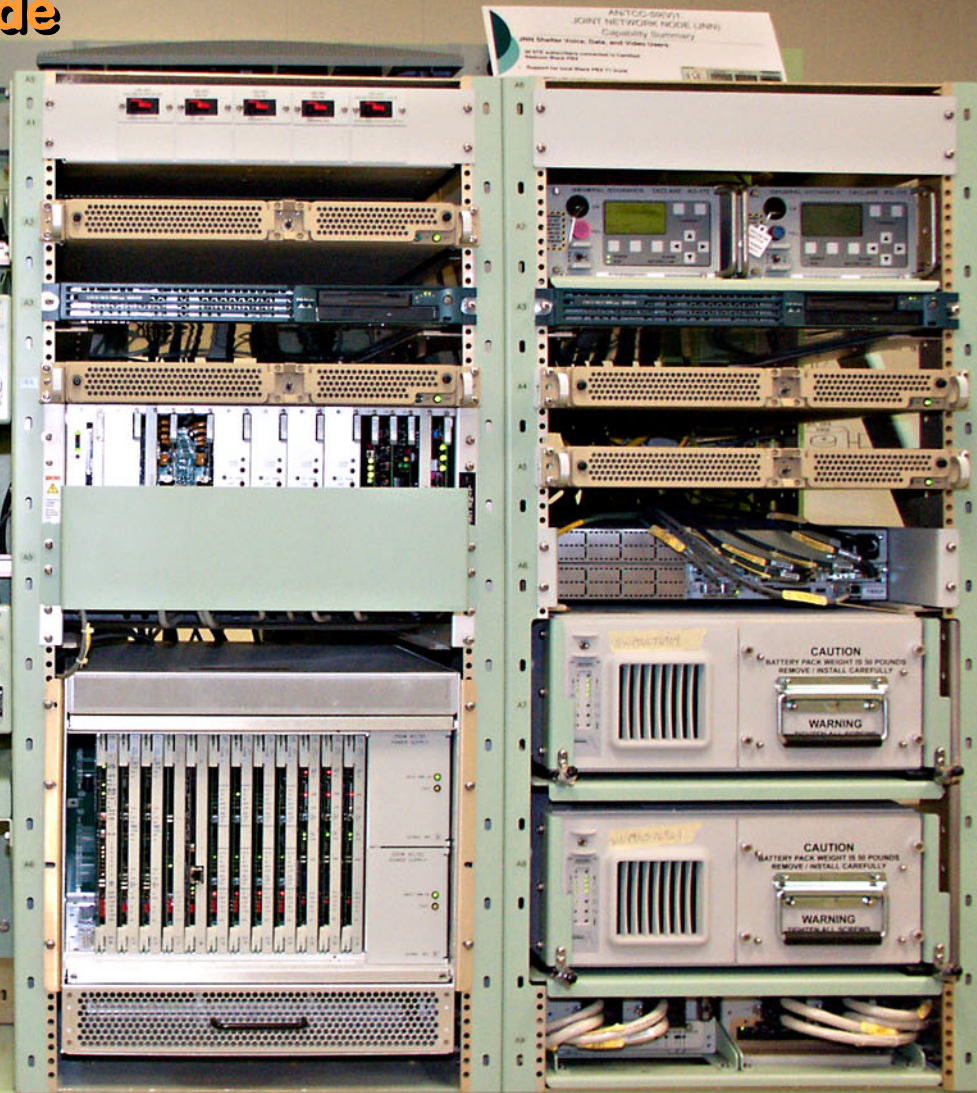


So, what's really behind the door?



Rugged on the outside,
.....commercial on the inside

Leveraging
Commercial
Products
(COTS)



Army Networks

Commercial Technology Inside

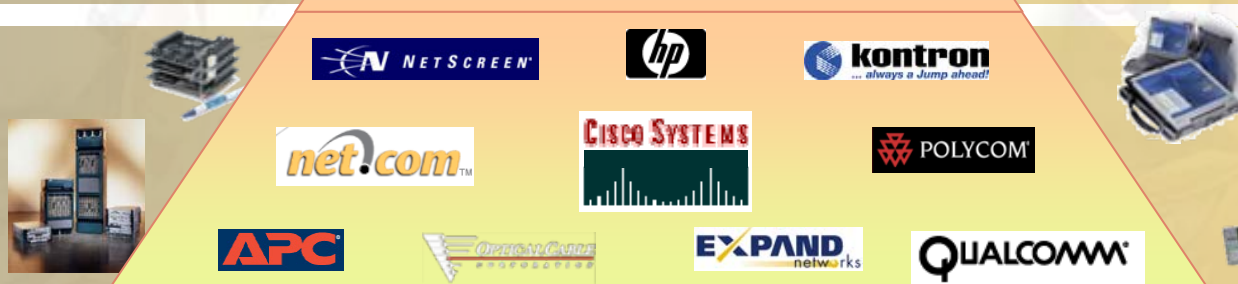
Software Applications



Computing Equipment



Network Equipment



Public Network Carriers



Army Networks

Commercial Technology Inside

Software
Applications

We use it!



Computing
Equipment

You use it!



Network
Equipment

Criminals use it!



Public
Network
Carriers

Our Adversaries use it!!





Digital Global Insurgents



Ubiquitous

Pervasive

Anonymous

Terrorist-related Web sites**

- 1997 = 12
- 2005 > 4,500

In the snow-draped mountains near Jalalabad in November 2001, as the Taliban collapsed and al Qaeda lost its Afghan sanctuary, Osama bin Laden biographer Hamid Mir watched "every second al Qaeda member carrying a laptop computer along with a Kalashnikov" as they prepared to scatter into hiding and exile.**

an al Qaeda operative "no longer has to carry anything that's incriminating. He doesn't need his schematics, he doesn't need his blueprints, he doesn't need formulas." Everything is posted on the Web or "can be sent ahead by encrypted Internet, and it gets lost in the billions of messages that are out there."***

al Qaeda - the first guerrilla movement in history to migrate from physical space to cyberspace

- suicide bombers & ambush units in Iraq access the Web for training and tactical support
- massive and dynamic online library of training materials -- some supported by experts who answer questions on message boards or in chat rooms –
 - mix ricin poison,
 - make a bomb from commercial chemicals,
 - pose as a fisherman and sneak through Syria into Iraq,
 - shoot at a U.S. soldier,
 - navigate by the stars while running through a night-shrouded desert. **

****Terrorists Turn to the Web as Base of Operations**
Steve Coll and Susan B. Glasser
Washington Post Staff Writers
7 August 2005

SLIDE DELETED

Neglecting Cyber Defense Is Costly



I Love You Virus - Analysts estimate damages worldwide as high as \$10 billion.

"Mafiaboy", a 16-year-old from Montreal, Quebec, faced 66 charges for Distributed Denial of Service attacks causing losses in the hundreds of millions.

CNN.com

amazon.com

ebay

YAHOO!

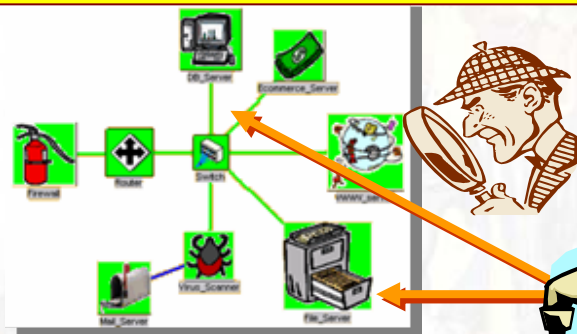
E*TRADE

DELL

excite

Costs for rebuilding the infrastructure of poorly secured Army posts camps and stations in the millions of \$\$\$\$\$

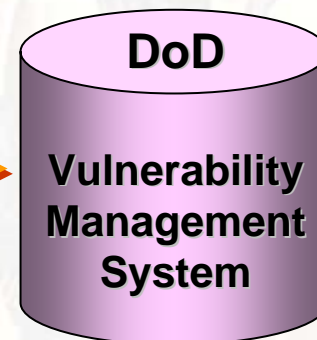
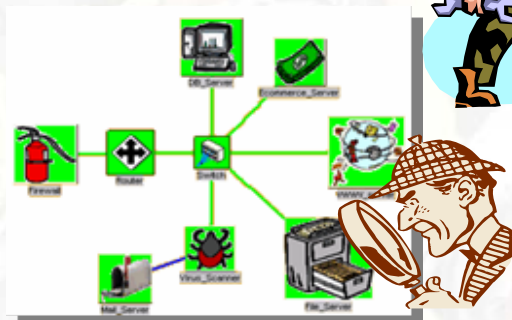
Find, Fix, Report, and Verify Compliance!



Find: Scan Tools -



Fix: Remediation Tools to push fixes/patches



Report: Rescan / send results to Army Asset & Vulnerability Tracking Resource (AVTR)

Verify: Army Compliance Verification Teams (CVT) conduct random/directed inspections

Train: Schoolhouse, eLearning, Virtual On-Demand



Reshaping our Testing and Training.....

..... Investing in Soldiers, equipment & infrastructure



Training



Testing





One Team - One Effort



Soldiers



Civilians



Industry

Network Engineers



Operators



Trainers



**65+ Industry Contractors
Supporting in Theater**







Technicians



Maintainers

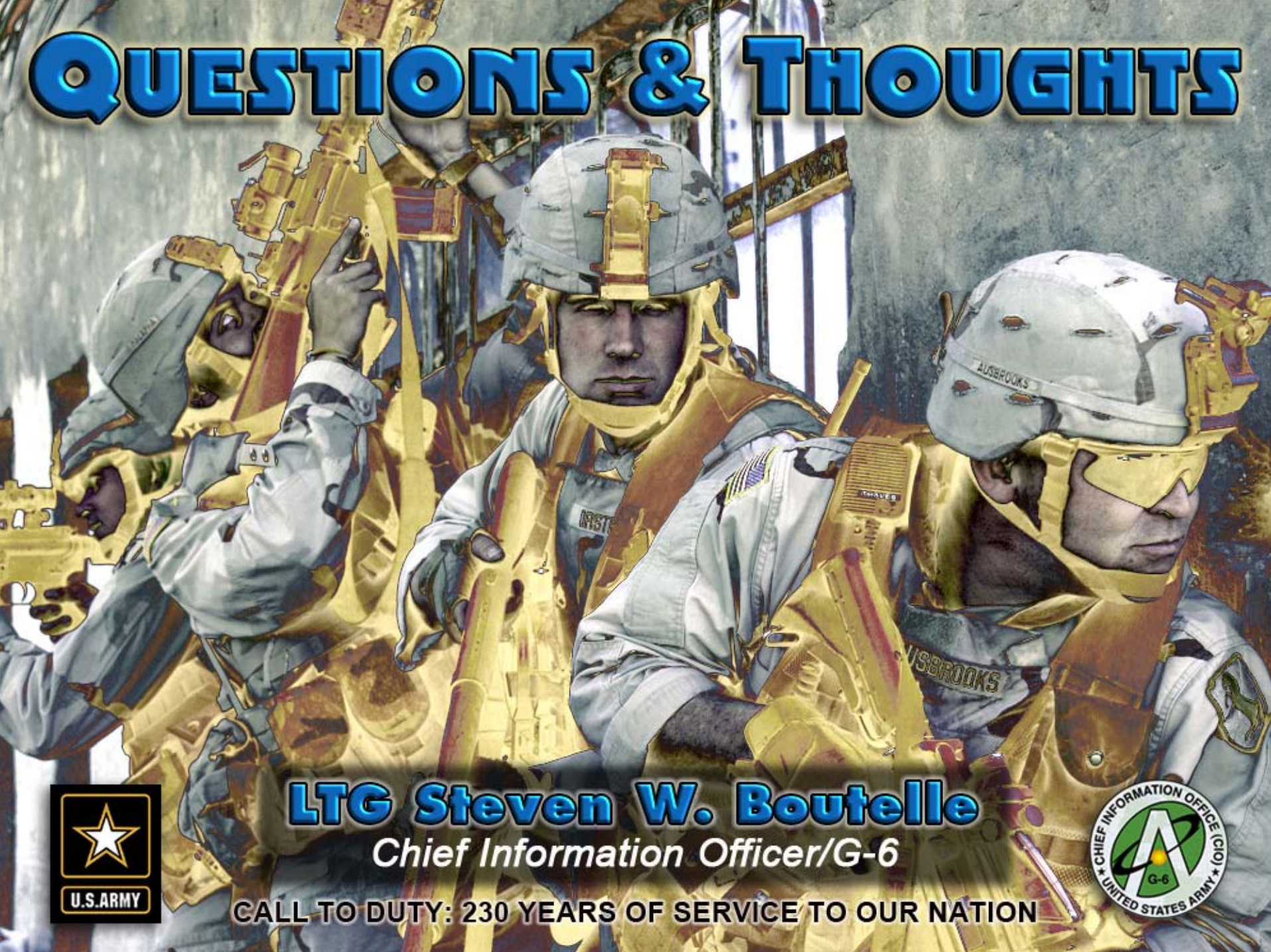


~50000 contractors in SWA

- 
The Army system (LandWarNet)...
 - ..is Diverse - business to combat
 - ..stretches Worldwide
 - ..operates in multiple environments – combat zone to office
 - ..confederation of networks
- 
Our ~1 Million users operate worldwide - spanning the globe...
 - ..peacekeeping - - humanitarian assistance - - combat operations
 - ..combat zone to office
- 
Maintain and operate a “global” network infrastructure
 - ..IP end to end!! - Everything over IP
 - ..Foxhole to factory - business and operational context
 - ..terrestrial, non-terrestrial, tactical, commercial, fiber, radios
 - ..One Army, One CIO - Active Duty, National Guard, Army Reserve
- 
Maintain and operate one of the largest corporate intranets in the world
 - ..~1.8M users - soldiers, family, civilians, contractors
 - ..access worldwide - anywhere - anytime
 - ..Not just business/administrative - supports operations worldwide
- 
Major challenge - secure the infrastructure
 - ..under all conditions - end to end
 - ..Enterprise licensing - IA architecture
 - ..changing the culture
- 
One Team - We don't do it alone
 - ..industry is a key player



QUESTIONS & THOUGHTS



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